



# ABBY KEARNS

EXECUTIVE DIRECTOR, CLOUD FOUNDRY FOUNDATION

@ab415





—  
**CATERPILLAR**





—  
**EMERGES  
TRANSFORMED**



# — **WHITEWATER KAYAKER**





—  
**SKILLED AND  
REACTIVE**







—  
**CATERPILLAR  
OR KAYAKER?**







An aerial photograph of a turbulent ocean. The water is a vibrant turquoise color, with white foam from the waves creating a complex, web-like pattern across the surface. Dark, jagged rocks are visible beneath the water's surface, particularly in the lower right and upper right areas, where the waves are crashing more violently. The overall scene conveys a sense of raw, untamed natural power.

**WE MUST BE KAYAKERS!**





**PLANS FOR LEARNING**

**CHOICE IS CRITICAL**

**ABSTRACTED COMPLEXITY**







—  
**EVERYTHING IS  
ACCELERATING**









An aerial view of a person in a red kayak navigating white water rapids. The water is a vibrant turquoise color with white foam from the rapids. The kayaker is wearing a blue shirt and a black helmet, and is using a black paddle. The kayak is positioned diagonally across the frame, moving from the top right towards the bottom left.

# 69%

**IT Decision Makers say digital transformation is important to their company.**



An aerial view of a person in a red kayak navigating a turbulent white-water rapids. The water is a vibrant turquoise color, and the rapids are characterized by white foam and churning currents. The kayaker is wearing a blue shirt and a black helmet, and is using a black paddle. The kayak is positioned in the upper left quadrant of the frame, moving towards the right. The overall scene conveys a sense of adventure and risk-taking.

**BE MORE RESPONSIVE**

**FAIL FASTER**

**INNOVATE MORE**



# BUILD FOR THE FUTURE

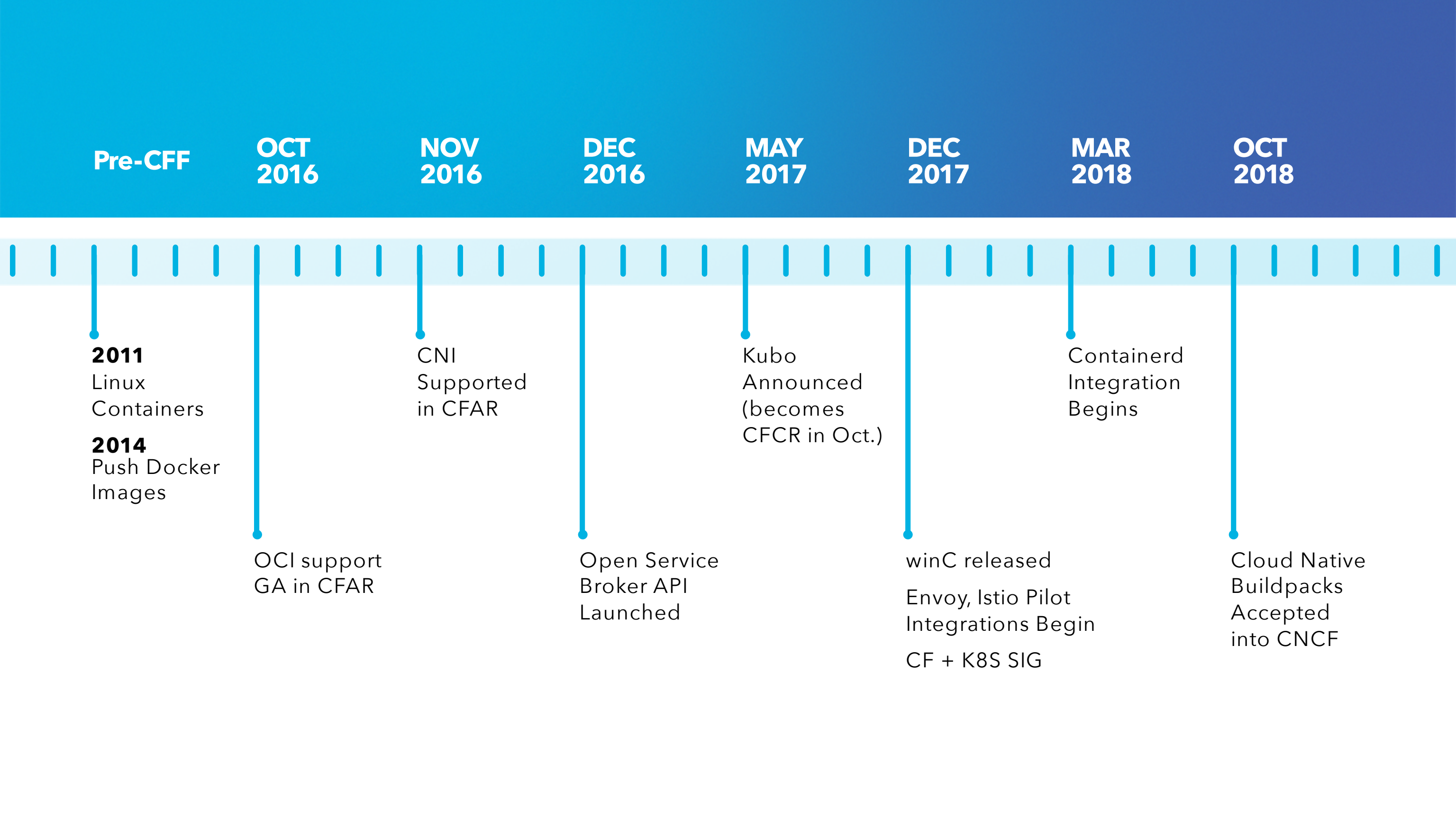
A high-angle, top-down photograph of a person in a red kayak navigating a turbulent white-water rapids. The water is a vibrant turquoise color, and the rapids are characterized by white, frothy water. The person is wearing a blue shirt and a black helmet, and is using a black paddle. The kayak is positioned diagonally across the frame, moving from the top left towards the bottom right. The overall scene conveys a sense of adventure and navigating through challenging waters.

**ADAPT** to change faster

**EMBRACE** multi-platform

**ENGAGE** in open source





Pre-CFF

OCT  
2016

NOV  
2016

DEC  
2016

MAY  
2017

DEC  
2017

MAR  
2018

OCT  
2018

**2011**  
Linux  
Containers  
**2014**  
Push Docker  
Images

OCI support  
GA in CFAR

CNI  
Supported  
in CFAR

Open Service  
Broker API  
Launched

Kubo  
Announced  
(becomes  
CFCR in Oct.)

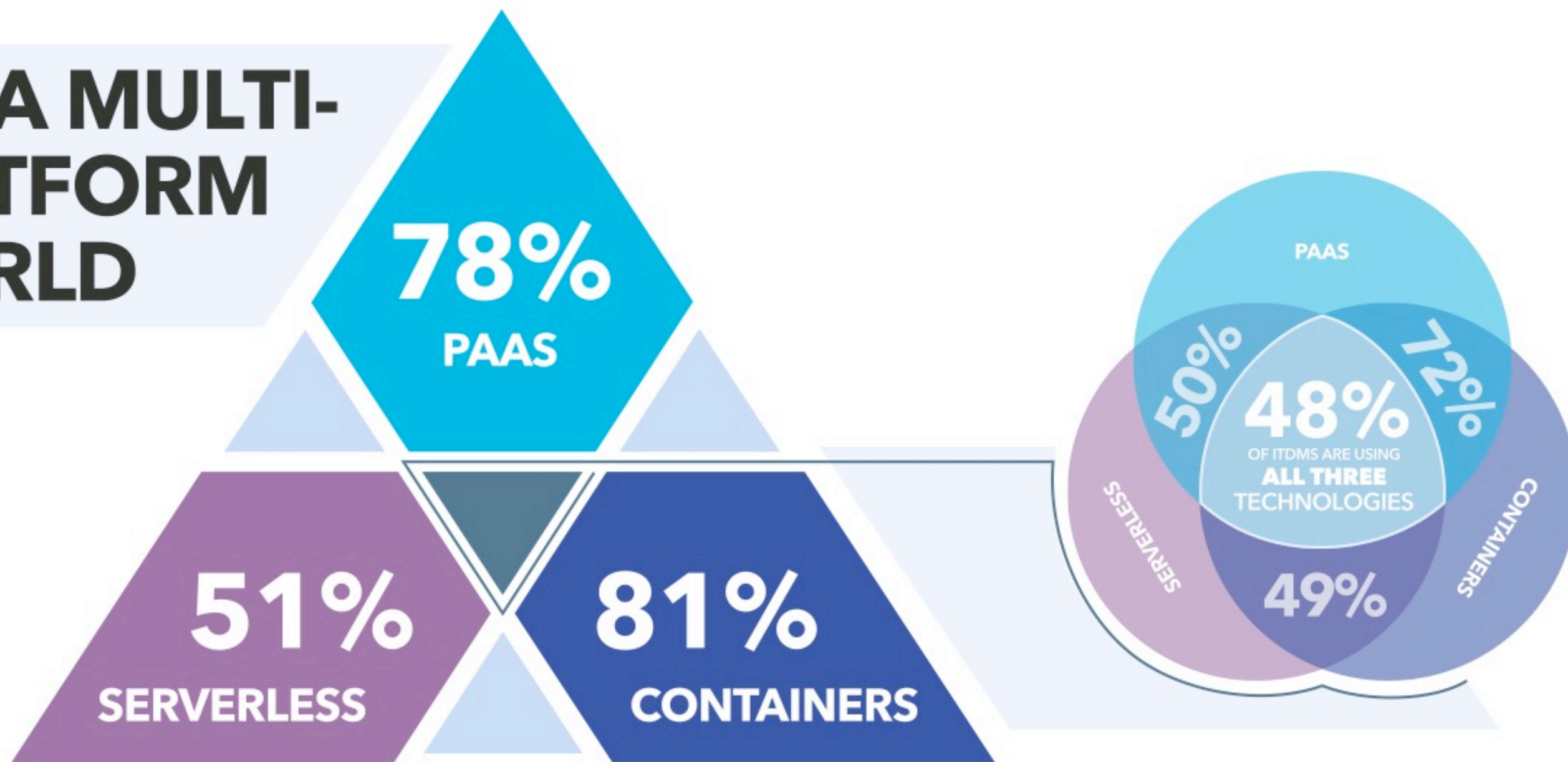
winC released  
Envoy, Istio Pilot  
Integrations Begin  
CF + K8S SIG

Containerd  
Integration  
Begins

Cloud Native  
Buildpacks  
Accepted  
into CNCF



# IT'S A MULTI- PLATFORM WORLD





# 66%

## OPEN SOURCE UNLOCKS OPPORTUNITY

# 50%

USE MULTI-CLOUD ENVIRONMENT

Microsoft  
Azure



43%

AWS



37%

IBM  
Cloud



33%

Google  
Cloud



28%

VMware  
vSphere



16%

Alibaba  
Cloud



13%

# 51%

ON-PREM PRIVATE CLOUD

# 41%

OFF-PREM PUBLIC CLOUD

# 31%

OFF-PREM PRIVATE CLOUD



## CROSS- FOUNDATION PROJECTS



Project Eirini is passing core functional tests and is now mature enough that early adopters have begun to deploy it into production environments.

Announced at Cloud Foundry Summit EU in 2018, Eirini has full-time engineers from Google and Pivotal, and continued contributions from IBM, SAP and SUSE.





# INTEROPERABILITY





59,400

+10% increase in **commits**

3,973

+30% increase in **pull requests**

# COMMUNITY VELOCITY

3,160

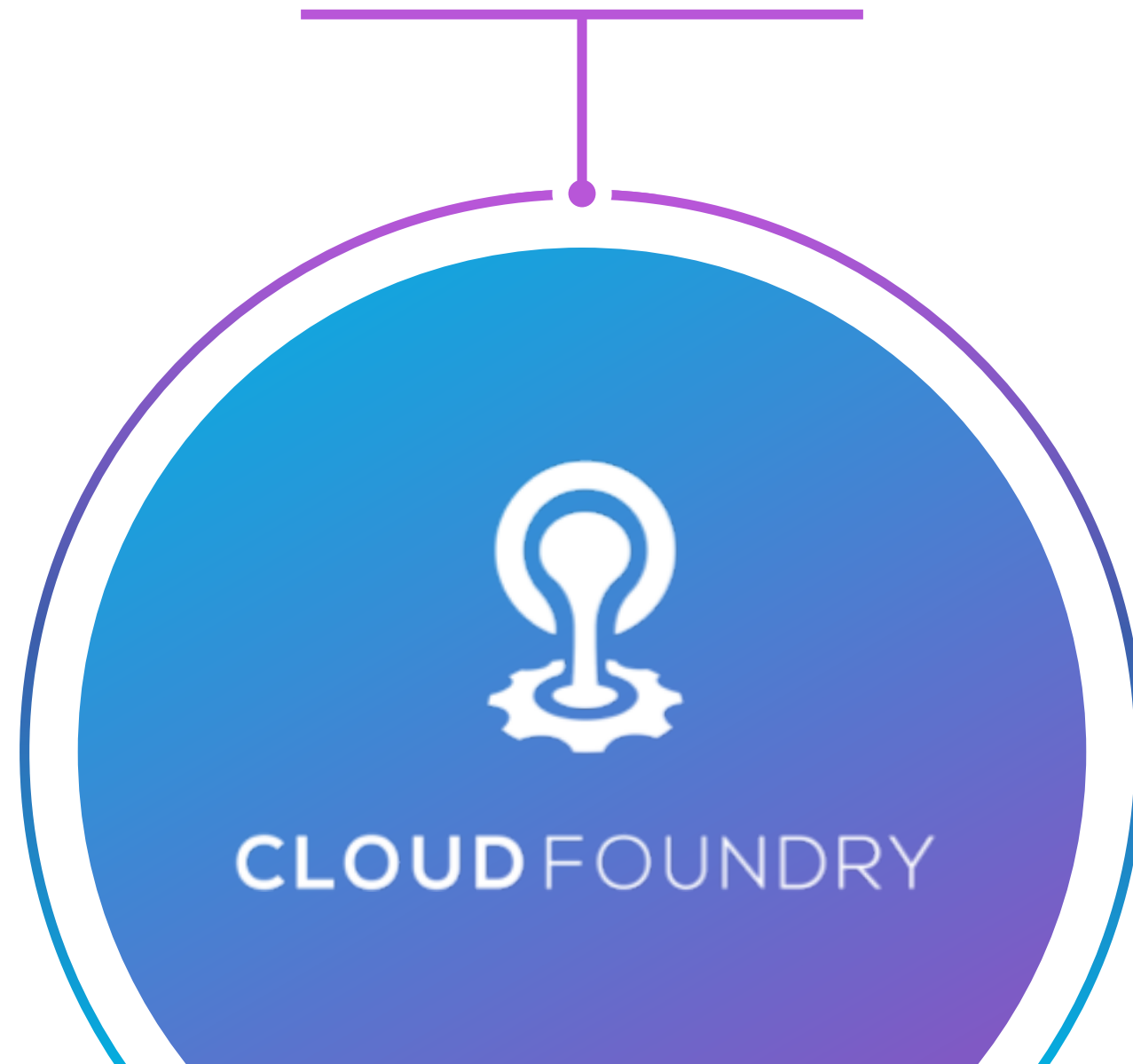
**Contributors**

40

**Active Projects**



**HALF** of the **FORTUNE 500**  
shaping the future of their companies





sky







UK-based media and telecom provider reaches 23M customers across Europe. Deployed Cloud Foundry to meet customer demand and deliver mobile services.

## OUTCOMES

Handles 3,000+ requests per second for mobile services

Developed Sky Academy for DevOps to increase employee skills and performance

Mobile services use 4,000 application containers









## Scale @ SAP (Internal)

- 26,000 vCPU
- 86,000 GB RAM
- 1.3 PB Disk
- Supporting **20,500 developers**
- 50,000 running containers
- 57,000 service instances

## Scale @ SAP (Customers)

10 environments overall

Largest environment:

- 18,500 vCPU
- 60,500 GB RAM
- 0.7 PB Disk
- 44,000 running containers
- 25,000 service instances









—

**BUILD FOR THE FUTURE**





—  
**CONTRIBUTE YOUR IDEAS**





-  
**THANK YOU**